

IAP16 Rec'd PCT/PTO 06 DEC 2003

Carl Zeiss Jena GmbH  
Attorney's File: PAT 1250/192-PCT

February 27, 2004

**Abstract**

5 In a projection device comprising a reflective light modulator (1) for generating an image, a light  
source unit (3) for illuminating the light modulator 1, and comprising projection optics (6) which  
include first and second partial optics (7, 8), said projection optics having an optical axis (OA),  
each optical boundary surface (W1-W6) of each lens (15; 17-19) of the first partial optics is  
curved and/or arranged such that, in a reference plane in which the optical axis (OA) of the  
projection optics (6) is located and which is divided by the optical axis (OA) into upper and lower  
10 half-planes (H1, H2), each reflection ray bundle (R1, R2; R3-R8) exiting the first partial  
optics (7) proceeds completely either into the first or into the second half-plane (H1, H2), in  
order to prevent the reflection ray bundles (R1, R2; R3-R8) from being projected onto the  
projection surface (11).

15

(Fig.1)

